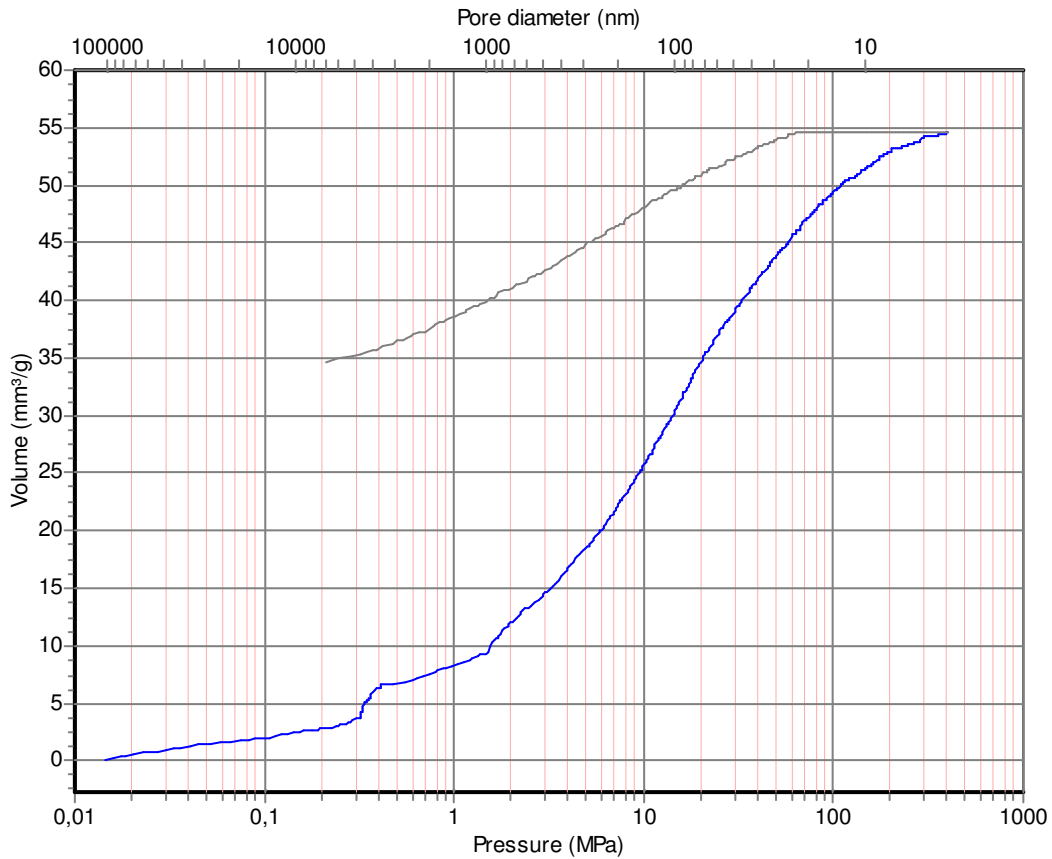


File name: S:...\Solid\Data\BAM 8.2 Kruschwitz\2016-P52\D_12-2021c.144

SOLID REPORTINGCompany name: BAM - FB 1.3
Operator: C. Prinz**TEST INFORMATION**Test date: 21-06-16
Sample name: D_12 Zement Estrich [5609]
Comment:
Sample mass (g): 0,6505
Sample skeleton density (g/cm³): 2,18
Test file name: S:...\Solid\Data\BAM 8.2 Kruschwitz\2016-P52\D_12-2021.P44
Combined with file (140): S:...\Solid\Data\BAM 8.2 Kruschwitz\2016-P52\D_12-2021.P14
Mercury surface tension (N/m): 0,48
Mercury contact angle (°): 140,0
Test filling volume (mm³): 448,0 at P < 1 Pa
Starting hydr. press. of test (MPa): 0,0124
(Dil+Hg+Sample) weight (g): 173,93
Corrected weight (Dil.+Hg+Sample) (g): 174,12**ANALYTICAL CONDITIONS**Maximum test pressure (MPa): 400
Increase speed: 5 - 17 MPa/min
Increase method: Pascal Stepwise
Decrease speed: 5 - 17 MPa/min
Decrease method: Pascal Stepwise
Temperature of test (°C): 24,0
Mercury density @ test (g/cm³): 13,5365**BLANK & DILATOMETER INFORMATION (Data from Pascal 440 file)**Blank date: 06-04-16
Blank filename: S:\Archiv\Mess-Files\Pascal140-440\Solid\Blank\Dil83_121-CD3N\Dil83_121-400-3.P4Hochdruckbereich
Comment: Hochdruckbereich
Blank Max pressure (MPa): 400
Blank Increase speed: 5 - 17 MPa/min
Blank Increase method: Pascal
Blank Decrease speed: 5 - 17 MPa/min
Blank Decrease method: Pascal
Dil. number: 83
Dil. type: CD3
Dil. Cone length (mm): 25
Dil. Electrode gap (mm): 5
Dil. stem radius (mm): 1,5
Dil. weight (g): 57,496
Temperature of blank (°C): 24
Mercury density @ blank (g/cm³): 13,5365
Blank filling volume (mm³): 462 at P < 1 Pa
Starting hydr. blank press. (MPa): 0,012713
(Dil+Hg) weight (g): 177,27

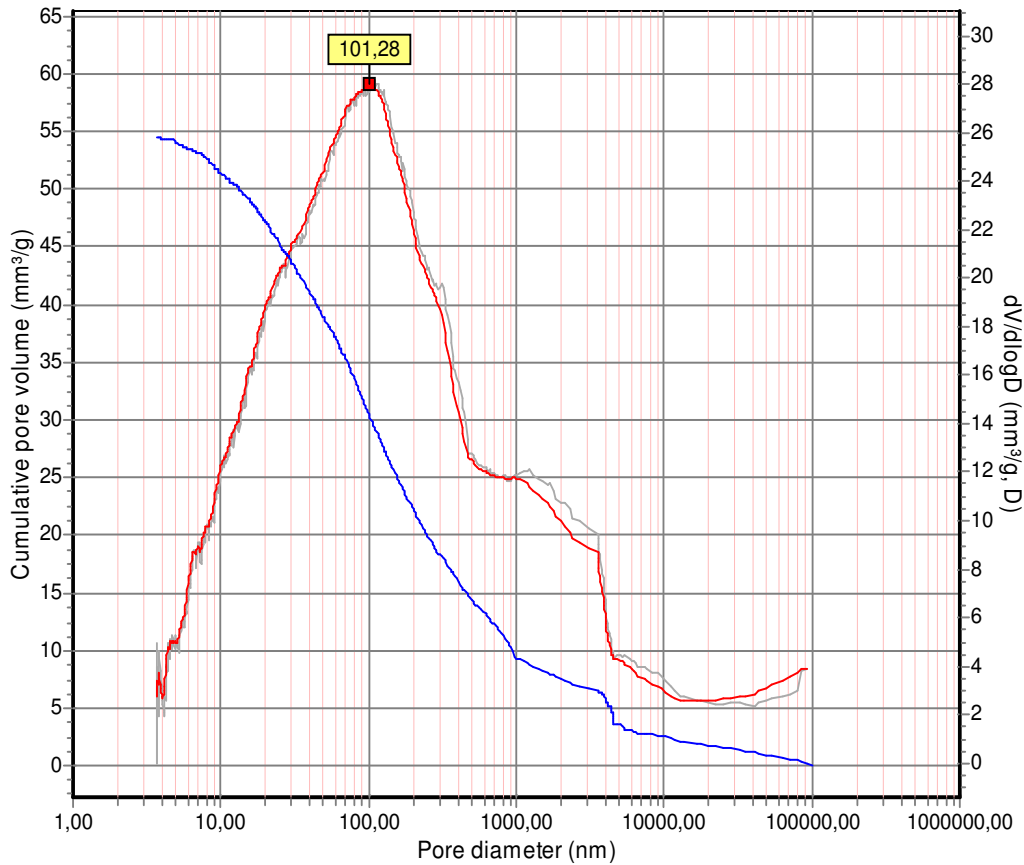
Inc / Dec - D_12 Zement Estrich [5609]



RESULTS WITHOUT COMPRESSIBILITY CORRECTION

Total intruded volume (mm ³)	35,49		
Total intruded volume (mm ³ /g):	54,56	at pressure of MPa:	400,4115
Spec. Vol. by skeleton dens. (mm ³ /g) Vd:	-27,05		
Bulk density (g/cm ³):	2,3166		
Envelope density (g/cm ³):	2,3167	at pressure of MPa:	0,015 Diam.(nm) 101086,3
Apparent density (g/cm ³):	2,6518	at pressure of MPa:	400,4115 Diam.(nm) 3,7
Porosity by skeleton density (%):	-6,27	Calculated by skeleton density of	2,18 g/cm ³
Porosity by Hg intrusion (%):	12,64		
Inaccessible porosity (%):	-18,91		

PORE SIZE DISTRIBUTION - dV/dlogD (mm³/g, D) - D_12 Zement Estrich [5609]



Derivative calculated with
 Moving average points:
 Smoothing factor:

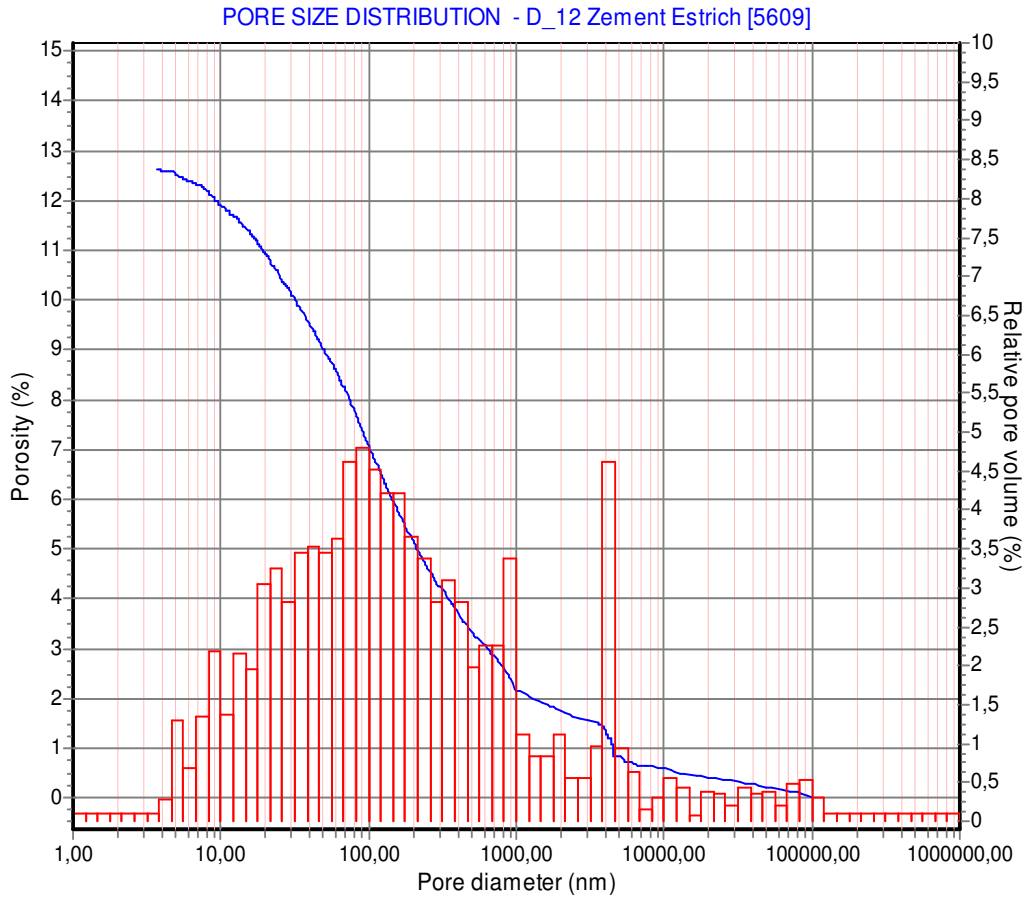
99
 0,80

Calc. press. range (MPa):
 Total pore volume (mm³/g):
 Total pore surface area (m²/g):
 Average pore diameter (nm):
 Median pore diameter (nm):
 Modal pore diameter (nm):
 Span:

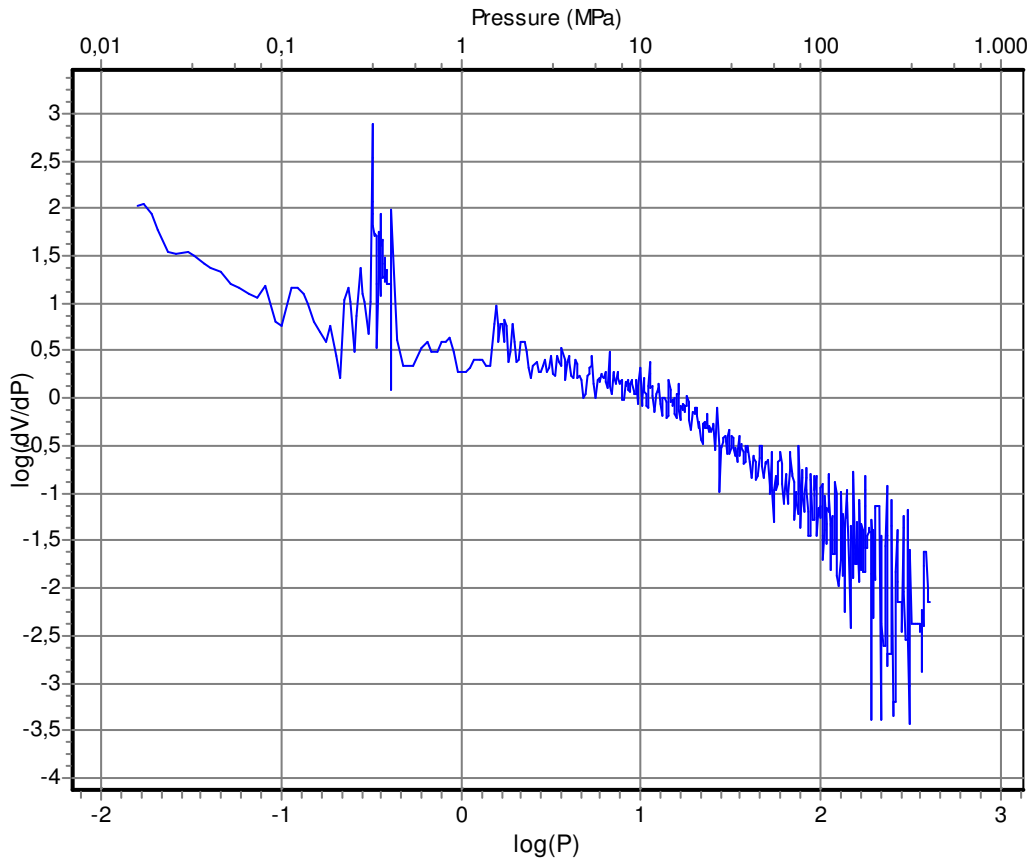
0.0 to 400,411
 54,56
 5,006
 43,60
 129,65
 101,28
 31,8706

with model :
 Hydraulic (4V/A)
 at (mm³/g) :
 at dV/dlogD (mm³/g, D) :
 at Min. Vol. (%) 10,0
 Cylindrical and Plate
 27,28
 28,02
 at Max. Vol. (%) 90,0

TOTAL PORE SIZE HISTOGRAM



FRACTAL DIMENSION OVERALL - D_12 Zement Estrich [5609]



Calc. press. range (MPa):: 0,0 to 400,4
Fractal dimension overall: 2,9727

RESULTS OF TORTUOSITY:

Surface area model:	Cylindrical and Plate
Tortuosity (Carniglia):	2,087
Tortuosity extended calculated:	from Customer choice area
Customer choice area:	1,0
Exponent cylindrical pore:	1,754
Tortuosity extended (Carniglia):	0,795

RESULTS OF PERMEABILITY:

Cylindrical pores permeability (μm^2):	750,84E-6
General permeability calculated:	from Tortuosity
General permeability (μm^2):	719,48E-6